

Revision: 03/26/2024

	ccording to Regulation (EC) No. 1907/2006 as ame	
Section 1.	Identification of the Substance/Mixture a	nd of the Company/Undertaking
.1 Product Code:	RbX	
Product Name:	Rabbit Factor X	
.2 Relevant identified uses of	of the substance or mixture and uses advis	sed against:
Relevant identified uses	s: For research use only.	
.3 Details of the Supplier of Company Name:	the Safety Data Sheet: Enzyme Research Laboratories 1801 Commerce Dr. South Bend, IN 46628	
Web site address:	www.enzymeresearch.com	
.4 Emergency telephone nu	mber:	
Emergency Contact:	Within USA and Canada: Outside USA and Canada:	+1 (800) 729-5270 +1 (574) 288-2268
	Section 2. Hazards Ide	ntification
.1 Classification of the Subs	stance or Mixture:	
Skin Irritant, Category 2 .2 Label Elements:	2	
.2 Label Elements:		2]:
2 Label Elements: 2.2.1 Labeling accor	2 ding to Regulation (EC) No 1272/2008 [CLF	2]:
.2 Label Elements: 2.2.1 Labeling accor GHS Signal Word:	2	י]:
.2 Label Elements: 2.2.1 Labeling accor	2 ding to Regulation (EC) No 1272/2008 [CLF Warning ion.	י]:
2 Label Elements: 2.2.1 Labeling accor GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritati	2 ding to Regulation (EC) No 1272/2008 [CLF Warning ion. kin irritation.	י]:
2 Label Elements: 2.2.1 Labeling accor GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritati H319: Causes serious ski H335: May cause respira GHS Precaution Phrase	2 ding to Regulation (EC) No 1272/2008 [CLF Warning ion. kin irritation. tory irritation. 25:	י]:
2 Label Elements: 2.2.1 Labeling accor GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritati H319: Causes serious ski H335: May cause respira GHS Precaution Phrase	2 ding to Regulation (EC) No 1272/2008 [CLF Warning ion. tin irritation. tory irritation. tory irritation.	ין:
2 Label Elements: 2.2.1 Labeling accor GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritati H319: Causes serious ski H335: May cause respiration GHS Precaution Phrase P261: Avoid breathing {d P264: Wash hands thoro	2 ding to Regulation (EC) No 1272/2008 [CLF Warning ion. tin irritation. tory irritation. tory irritation.	
2.2.1 Label Elements: 2.2.1 Labeling accor GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritati H319: Causes serious ski H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {d P264: Wash hands thoro P280: Wear protective gli GHS Response Phrases P302+352: IF ON SKIN: P305+351+338: IF IN EN and eas P304+340: IF INHALED: P332+313: If skin irritatio P337+313: If eye irritatio	ding to Regulation (EC) No 1272/2008 [CLF Warning ion. tin irritation. tory irritation. es: ust/fume/gas/mist/vapors/spray}. ughly after handling oves/protective clothing/eye protection/face p	rotection. ninutes. Remove contact lenses if present
2 Label Elements: 2.2.1 Labeling accor GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritati H319: Causes serious sk H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {d P264: Wash hands thoro P280: Wear protective gl GHS Response Phrases P302+352: IF ON SKIN: P305+351+338: IF IN EN and eas P304+340: IF INHALED: P332+313: If skin irritatio P337+313: If eye irritatio	ding to Regulation (EC) No 1272/2008 [CLF Warning ion. tin irritation. tory irritation. tory irritation. es: ust/fume/gas/mist/vapors/spray}. ughly after handling oves/protective clothing/eye protection/face p s: Wash with plenty of water (ES: Rinse cautiously with water for several n sy to do – continue rinsing. Remove victim to fresh air and keep at rest in on occurs, get medical advice/attention. n occurs, get medical advice/attention. aminated clothing and wash it before reuse.	rotection. ninutes. Remove contact lenses if present



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## SAFETY DATA SHEET Rabbit Factor X

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#### 2.3 Adverse Human Health

Effects and Symptoms:

Causes mild skin irritation.

Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause eye or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated

# Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
9001-29-0 NA	Rabbit Factor X	~98 - 99%	NA NA	No data available.
7647-14-5 VZ4725000	Sodium chloride	~0 - 2%	231-598-3 NA	No data available.
77-86-1 TY2900000	Tris 01-2119957659-16	~0 - 2%	201-064-4 NA	No data available.
206752-36-5 NA	Benzamidine	~0 - 2%	606-598-5 NA	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335

		Section 4. First Aid Measures				
4.1	Description of First Aid	No data available.				
	Measures:					
	In Case of Inhalation:	Move person to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.				
		Get immediate medical attention.				
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.				
	In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.				
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.				
		Section 5. Fire Fighting Measures				
<b>5.1 Suitable Extinguishing</b> Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.						
	Media:	Use water spray to cool fire-exposed containers.				
	Unsuitable Extinguishing	A solid water stream may be inefficient.				
	Media:					
5.2	Flammable Properties an	Flammable Properties and No data available.				
	Hazards:					
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instructions	: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or				
1		equivalent), and full protective gear to prevent contact with skin and eyes.				



			Section 6. A	ccidental Releas	e Measures			
6.1	Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.							
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparate						paratus, or respirator		
	Emerge	ncy Procedures	and appropriate pe	rsonal protection (rubber	boots, safety goggles, and heav	vy rubber gloves).		
.2	<b>Environmental</b> Take steps to avoid release into the environment, if safe to do so.							
	Precautions:							
i.3	3 Methods and Material For Contain spill and collect, as appropriate.							
	Contain	tainment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.						
	Up:			contaminated area and a	all cleaning materials with a 10%	6 bleach aqueous		
			solution.					
			Section 7	7. Handling and	Storage			
7.1	Precaut	ions To Be Take	<b>n</b> Avoid breathing dus	t/fume/gas/mist/vapours/	spray.			
	in Hand	ling:	Avoid prolonged or	repeated exposure.				
7.2	Precaut	ions To Be Take	<b>n</b> Keep container tight	tly closed.				
	in Stori	ng:	Store in accordance	with information listed or	n the product insert.			
		Sec	ction 8. Expos	ure Controls/Per	rsonal Protection			
3.1	Exposu	re Parameters:	ľ					
CAS	#	Partial Chemica	al Name	Britain EH40	France VL	Europe		
9001·	-29-0	Rabbit Factor X		No data.	No data.	No data.		
764	7-14-5	Sodium Chloride	;	No data.	No data.	No data.		
77	7-86-1	Tris		TWA: 5.0 mg/m3	TWA: 5 mg/m3	No data.		
2067	52-36-5	Benzamidine		No data.	No data.	No data.		
CAS	#	Partial Chemica	al Name	OSHA TWA	ACGIH TWA	Other Limits		
9001	-29-0	Rabbit Factor X		No data.	No data.	No data.		
764	7-14-5	Sodium Chloride	;	No data.	No data.	No data.		
77	7-86-1	Tris		TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	No data.		
2067	52-36-5	Benzamidine		No data.	No data.	No data.		
	Even e e u	re Controls:		·	·	·		
	Exposu							
3.2	-	ering Controls	Use process enclos	ures, local exhaust ventil	ation, or other engineering contr	ols to control airborn		
3.2	Enginee		•	ures, local exhaust ventila nended exposure limits.	ation, or other engineering contr	ols to control airborn		
3.2 3.2.1	Enginee (Ventila	ering Controls	levels below recom		ation, or other engineering contr	ols to control airborn		
8.2 8.2.1	Enginee (Ventila Persona	ering Controls tion etc.):	levels below recom		ation, or other engineering contr	ols to control airborn		
3.2 3.2.1	Enginee (Ventila Persona Eye Pro	ering Controls tion etc.): al protection equ	levels below recomr	nended exposure limits.	ation, or other engineering contr	ols to control airborn		
8.2 8.2.1	Enginee (Ventila Person Eye Pro Protecti	ering Controls tion etc.): al protection equ tection:	levels below recomm ipment: Safety glasses Compatible chemica	nended exposure limits.	ation, or other engineering contr	ols to control airborn		
3.2 3.2.1	Enginee (Ventila Persona Eye Pro Protecti Other P	ering Controls tion etc.): al protection equ tection: ive Gloves:	levels below recomm ipment: Safety glasses Compatible chemica ig:Lab coat	nended exposure limits.		ols to control airborn		
8.2 8.2.1	Enginee (Ventila Persona Eye Pro Protecti Other P	ering Controls tion etc.): al protection equ tection: ive Gloves: rotective Clothin tory Equipment	levels below recomm ipment: Safety glasses Compatible chemica ig:Lab coat	nended exposure limits. al-resistant gloves		ols to control airborn		
3.2 3.2.1	Enginee (Ventila Persona Eye Pro Protecti Other P Respira (Specify	ering Controls tion etc.): al protection equ tection: ive Gloves: rotective Clothin tory Equipment y Type):	levels below recomm ipment: Safety glasses Compatible chemica ig:Lab coat	mended exposure limits. al-resistant gloves spirator, as conditions wa		ols to control airborn		
3.2 3.2.1 3.2.2	Enginee (Ventila Persona Eye Pro Protecti Other P Respira (Specify	ering Controls tion etc.): al protection equ tection: ive Gloves: rotective Clothin tory Equipment / Type): ygienic/Maintena	levels below recomm ipment: Safety glasses Compatible chemica ig:Lab coat NIOSH approved re in Do not take internal	mended exposure limits. al-resistant gloves spirator, as conditions wa ly. utilizing this material shou				



		Sec	tion 9. P	hysical and Che	emical P	roperties		
).1	Informat	ion on Basic Physica	I and Chemic	al Properties				
	Physica	l States:	[] Gas	[ X ] Liquid (frozen)	[X] Solid	(Lyophilized)		
	Appeara	ance and Odor:	Solid					
	Melting	Point:	No data.					
	Boiling	Point:	No data.					
	Flash Pt	:	No data.					
	Evapora	tion Rate:	No data.					
	Explosiv	ve Limits:	LEL: No	data.	UEL: No	o data.		
	Vapor P Hg):	ressure (vs. Air or m	m No data.					
		ensity (vs. Air = 1):	No data.					
	-	Gravity (Water =	1): No data.					
	•	ty in Water:	, No data.					
	Autoign	-	No data.					
9.2	-	formation						
		Volatile:	No data.					
			Section	10. Stability and	d Reacti	vity		
10.1	Reactivi	i <b>ty:</b> No	o data available	•				
10.2	Stability	v: Ur	stable [ ]	Stable [ X ]				
10.3	Stability	Note(s): St	able if stored in	n accordance with inform	nation listed	on the product	insert.	
	Polyme	r <b>ization</b> : W	ill occur [ ]	Will not occur [ X ]				
10.4	Conditio	ons To Avoid: No	o data available	э.				
10.5	Incompa	atibility - Materials No	o data available	Э.				
	To Avoi	-						
10.6	Hazardo	ous No	o data available	Э.				
	Decomp	oosition Or						
	Byprodu							
			Section 1	1. Toxicologica	I Informa	ation		
11.1	Informa	tion on Th	e toxicologica	effects of this product h	ave not beer	n thoroughly st	udied.	
	Toxicolo	ogical Effects:	-					
CAS #	ŧ	Hazardous Compo	nents (Chemio	cal Name)	NTP	IARC	ACGIH	OSHA
9001-2	29-0	Rabbit Factor X	-	-	n.a.	n.a.	n.a.	n.a.
	7-14-5	Sodium Chloride			n.a.	n.a.	n.a.	n.a.
764								
	86-1	Tris			n.a.	n.a.	n.a.	n.a.



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	Section 12. Ecological Information					
12.1	Toxicity:	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.				
12.2	Persistence and	No data available.				
	Degradability:					
12.3	Bioaccumulative	No data available.				
	Potential:					
12.4 12.5	Mobility in Soil: Results of PBT and vPvB	No data available. No data available.				
	assessment:					
12.6	Other adverse effects:	No data available				



Section 13. Disposal Considerations									
<b>13.1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.									
Section 14. Transport Information									
14.1 LAND 1									
DOT Prope	er Shipping Name	: Not dangerous goods.							
DOT Hazar	d Class:								
UN/NA Nur	nber:								
14.1 LAND 1	RANSPORT (Eur	opean ADR/RID):							
ADR/RID S	hipping Name:	Not dangerous goods.							
UN Numbe									
Hazard Cla									
	ANSPORT (ICAO/								
	Shipping Name:	Not dangerous goods.							
Additional Tra	nsport	Transport in accordance with lo	ocal, state, and federa	l regulations.					
information.									
		Section 15. Regu	<u> </u>	tion					
	-	nents and Reauthorization Act	-	T					
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
9001-29-0	Rabbit Factor X		No	No	No				
7647-14-5	Sodium Chloride		No	No	No				
77-86-1	Tris		No	No	Yes-Cat. N106				
206752-36-5	Benzamidine		No	No	No				
CAS #		ponents (Chemical Name)	Other US EPA or						
9001-29-0	Rabbit Factor X		CAA HAP,ODC: No; Inventory; CA PRC	CWA NPDES: No; T DP.65: No	SCA: Yes -				
7647-14-5	Sodium chloride		CAA HAP,ODC: No;	CWA NPDES: No; T	SCA: No; CA				
			PROP.65: No						
77-86-1	Tris		CAA HAP,ODC: No; PROP.65: No	CWA NPDES: No; T	SCA: No; CA				
206752-36-5	Benzamidine		CAA HAP,ODC: No; PROP.65: No	CWA NPDES: No; T	SCA: No; CA				
Regulatory Info	ormation	This SDS was prepared in acco	ordance with 29 CFR		lation (EC)				
Statement:		No.1272/2008.		-					
Section 16. Other Information									
Additional Info	rmation About	No data available.							
This Product:									
Company Polic	y or Disclaimer: I	DISCLAIMER: This information is		-					
		currently available to us. Howev		-					
		express or implied, with respec use. Users should make their o							
		their particular purposes.							